

Substitute for form 1449A&B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/517,942
				Filing Date	August 4, 2005
				First Named Inventor	Manger, Ian D.
				Art Unit	1765
				Examiner Name	Not Assigned
Sheet	1	of	18	Attorney Docket Number	020174-008610US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	AA	RE.36,350	10-26-1999	Swedberg et al.	
	AB	US-2002-0005354 A1	01-17-2002	Spence et al.	
	AC	US-2002-0058332 A1	05-16-2002	Quake et al.	
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	AO	US-2003-0119177 A1	06-26-2003	Gruber et al.	
	AP	US-2003-0143120 A1	07-31-2003	Ruediger et al.	
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	AR	US-2003-0196695 A1	10-23-2003	O'Connor et al.	
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	AW	US-6,500,323 B1	12-31-2002	Chow et al.	
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	AZ	US-6,533,914 B1	03-18-2003	Liu	
	BA	US-6,537,799 B2	03-25-2003	Chow et al.	
	BB	US-6,555,315 B1	04-29-2003	Short	
	BC	US-6,563,111 B1	05-13-2003	Moon et al.	
	BD	US-6,569,382 B1	05-27-2003	Edman et al.	
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	BE	US-6,581,441 B1	06-24-2003	Paul	
	BF	US-6,596,545 B1	07-22-2003	Wagner et al.	
	BG	US-6,605,472 B1	08-12-2003	Skinner et al.	
	BH	US-6,627,076 B2	09-30-2003	Griffiths	
	BI	US-6,637,463 B1	10-28-2003	Lei et al.	
	BJ	US-6,662,818 B2	12-16-2003	Paul et al.	
	BK	US-6,664,104 B2	12-16-2003	Pourahmadi et al.	
	BL	US-6,677,131 B2	01-13-2004	Yuen	
	BM	US-6,736,978 B1	05-18-2004	Porter et al.	
	BN	US-6,749,814 B1	06-15-2004	Bergh et al.	
	BO	US-6,752,922 B2	06-22-2004	Huang et al.	
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	BQ	US-			

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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	BR	DE	299 17 313	A1	02-15-2001	MWG Biotech AG		<input type="checkbox"/>
	BS	EP	0 579 997	A1	01-26-1994	DuPont		<input type="checkbox"/>
	BT	EP	0 846 776		06-10-1998	Muller et al.		<input type="checkbox"/>
	BU	EP	1 065 378	A2	01-03-2001	California Institute Of Technology		<input type="checkbox"/>
	BV	GB	2 097 692	A	11-10-1982	Patrick Douglas Shaw Stewart		<input type="checkbox"/>
	BW	JP	9-043251		02-14-1997	Olympus Optical Co.		<input type="checkbox"/>
	BX	WO	00/53801	A1	09-14-2000	Merck Frosst Canada Inc.		<input type="checkbox"/>
	BY	WO	00/68414	A2	11-16-2000	Merck Frosst Canada Inc.		<input type="checkbox"/>
	BZ	WO	00/70082	A1	11-23-2000	Secr. Defence et al.		<input type="checkbox"/>

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	CA	WO	01/07061	A1	02-01-2001	Smithkline Beecham Corp		<input type="checkbox"/>
	CB	WO	01/24937	A2	04-12-2001	Pyrosequencing		<input type="checkbox"/>
	CC	WO	01/32930	A1	05-10-2001	California Institute Of Technology		<input type="checkbox"/>
	CD	WO	01/34302		05-17-2001	Motorola, Inc. et al.		<input type="checkbox"/>
	CE	WO	01/45843		06-28-2001	Gene Logic Inc.		<input type="checkbox"/>
	CF	WO	01/53794	A1	07-26-2001	Northeastern University		<input type="checkbox"/>
	CG	WO	01/89695		11-29-2001	Micronics Inc.		<input type="checkbox"/>
	CH	WO	02/00343	A2	01-03-2002	Fluidigm Corporation		<input type="checkbox"/>
	CI	WO	02/29106	A2	04-11-2002	California Institute Of Technology		<input type="checkbox"/>
	CJ	WO	02/30486	A2	04-18-2002	Fluidigm Corporation		<input type="checkbox"/>
	CK	WO	02/40874	A1	05-23-2002	California Institute Of Technology		<input type="checkbox"/>
	CL	WO	02/43615	A2	06-06-2002	California Institute Of Technology		<input type="checkbox"/>
	CM	WO	02/60582	A3	08-08-2002	Fluidigm Corporation		<input type="checkbox"/>
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	CO	WO	02/72892	A1	09-19-2002	California Institute Of Technology		<input type="checkbox"/>
	CP	WO	02/81729	A2	10-17-2002	California Institute Of Technology		<input type="checkbox"/>
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	CR	WO	03/037781	A1	05-08-2003	Motorola, Inc.		<input type="checkbox"/>
	CS	WO	03/48295	A1	06-12-2003	Fluidigm Corporation		<input type="checkbox"/>
	CT	WO	90/15070	A1	12-13-1990	Affymax Technologies N.V.		<input type="checkbox"/>
	CU	WO	92/16657	A1	10-01-1992	DuPont		<input type="checkbox"/>
	CV	WO	96/04547	A1	02-15-1996	Lockheed Martin Energy Systems, Inc.		<input type="checkbox"/>
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	CW	WO	96/27025	A1	09-06-1996	Rabani, Ely Michael		<input type="checkbox"/>
	CX	WO	97/27324	A1	07-31-1997	Sarnoff David Res. Center		<input type="checkbox"/>
	CY	WO	97/45644	A1	12-04-1997	The University Of Washington		<input type="checkbox"/>
	CZ	WO	98/00231	A1	01-08-1998	Caliper Technologies Corporation		<input type="checkbox"/>
	DA	WO	98/04742	A1	02-05-1998	Genzyme Corp. et al.		<input type="checkbox"/>
	DB	WO	98/10267	A1	03-12-1998	Technical University Of Denmark		<input type="checkbox"/>
	DC	WO	98/45481	A1	10-15-1998	Caliper Technologies Corp. et al.		<input type="checkbox"/>
	DD	WO	98/52691	A1	11-26-1998	Alberta Research Council AND The University Of Alberta		<input type="checkbox"/>
	DE	WO	99/14311	A1	03-25-1999	SmithKline Beecham Corp. et al.		<input type="checkbox"/>
	DF	WO	99/36760	A1	07-22-1999	Genetic Microsystems, Inc.		<input type="checkbox"/>
	DG	WO	99/61888	A2	12-02-1999	California Institute of Technology et al.		<input type="checkbox"/>
	DH							<input type="checkbox"/>

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	DI	"Acuosto-Optic Modulators" available at <a href="http://www.brimrose.com/acuosto_modulators.html">www.brimrose.com/acuosto_modulators.html</a> , 9-27-2000	<input type="checkbox"/>

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	DJ	Applied Biosystems, "TaqMan® PCR Reagent Kit With AmpliTaq Gold® DNA Polymerase Protocol," January 2003	<input type="checkbox"/>	
	DK	ASHKIN, A. et al., "Optical Trapping And Manipulation Of Single Cells Using Infrared Laser Beams," Nature, Vol. 330, No. 24, pp. 769-771, December 31, 1987	<input type="checkbox"/>	
	DL	ASHKIN, A. et al., "Optical Trapping And Manipulation Of Viruses And Bacteria," Science, Vol. 235, pp. 1517-1520, March 20, 1987	<input type="checkbox"/>	
	DM	AXELROD, DANIEL, "Cell-Substrate Contacts Illuminated By Total Internal Reflection Fluorescence," Journal of Cell Biology, Vol. 89, pp. 141-145, April 1981	<input type="checkbox"/>	
	DN	BADER, JOEL S. et al., "DNA Transport By A Micromachined Brownian Ratchet Device," PNAS, Vol. 96, No. 23, pp. 13165-13169, November 9, 1999	<input type="checkbox"/>	
	DO	BARRON, ANNELISE E. et al., "Capillary Electrophoresis Of DNA In Uncross-Linked Polymer Solutions," Journal of Chromatography A, Vol. 652, pp. 3-16, 1993	<input type="checkbox"/>	
	DP	BARRON, ANNELISE E. et al., "DNA Separations By Slab Gel And Capillary Electrophoresis - Theory And Practice," Separation and Purification Methods, Vol. 24, No. 1, pp. 1-118, 1995	<input type="checkbox"/>	
	DQ	BARRON, ANNELISE E. et al., "The Use Of Coated And Uncoated Capillaries For The Electrophoretic Separation Of DNA In Dilute Polymer-Solutions," Electrophoresis, Vol. 16, pp. 64-74, 1995	<input type="checkbox"/>	
	DR	BELGRADER et al., "A Battery-Powered Notebook Thermal Cycler For Rapid Multiplex Real-Time PCR Analysis," Anal. Chem., Vol. 73, pp. 286-289, 2001	<input type="checkbox"/>	
	DS	BELGRADER et al., "PCR Detection Of Bacteria In Seven Minutes," Science, 284(5413), pp. 449-450, 1999	<input type="checkbox"/>	
	DT	BLANCH, HARVEY W. et al., Biochemical Engineering, pp. 2 cover pages and 305, 1996	<input type="checkbox"/>	
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	DU	BLANKENSTEIN, GERT et al., "Modular Concept Of A Laboratory On A Chip For Chemical And Biochemical Analysis," Biosensors & Bioelectronics, Vol. 13, Nos. 3-4, pp. 427-438, 1998	<input type="checkbox"/>
	DV	BRASLAVSKY et al.; "Single Molecule Measurements of DNA Polymerase Activity: A Step Towards Single Molecule Sequencing", Biophysics Journal Abstracts Issue, 2002, p. 507A, Vol. 82, No. 1.	<input type="checkbox"/>
	DW	BRESLAUER, KENNETH J. et al., "Predicting DNA Duplex Stability From The Base Sequence," Proc. Natl. Acad. Sci. USA, Vol. 83, pp. 3746-3750, June 1986	<input type="checkbox"/>
	DX	BRODY, J. P. et al., "Low Reynolds Number Micro- Fluidic Devices," In Proc. Of Solid-State Sensor and Actuator Workshop, pp. 105-108, June 1996	<input type="checkbox"/>
	DY	BRODY, JAMES P. et al., "Significance And Statistical Errors In The Analysis Of DNA Microarray Data," PNAS, Vol. 99, No. 20, pp. 12975-12978, October 1, 2002	<input type="checkbox"/>
	DZ	BUICAN, TUDOR N. et al., "Automated Single-Cell Manipulation And Sorting By Light Trapping," Applied Optics, Vol. 26, No. 24, pp. 5311-5316, December 15, 1987	<input type="checkbox"/>
	EA	BULYK, MARTHA L. et al., "Quantifying DNA-Protein Interactions By Double-Stranded DNA Arrays," Nature Biotechnology, Vol. 17, pp. 573-577, June 1999	<input type="checkbox"/>
	EB	BURBAUM, JONATHAN J. et al., "New Technologies For High-Throughput Screening," Current Opinion in Chemical Biology, Vol. 1, pp. 72-78, 1997	<input type="checkbox"/>
	EC	BURNS et al., "An Integrated Nanoliter DNA Analysis Device," Science, Vol. 282, pp. 484-487, 1998	<input type="checkbox"/>
	ED	BUSCH, J. et al., "Methods For The Differentiation Of Microorganisms, Journal of Chromatography B, Vol. 722, pp. 263-278, 1999	<input type="checkbox"/>
	EE	CAI, WEIWEN, et al., "High-Resolution Restriction Maps Of Bacterial Artificial Chromosomes Constructed By Optical Mapping," Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 3390-3395, March 1998	<input type="checkbox"/>
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	EF	CASTRO, ALONSO et al., "Fluorescence Detection And Size Measurement Of Single DNA Molecules," Analytical Chemistry, Vol. 65, No. 7, pp. 849-852, April 1, 1993	<input type="checkbox"/>
	EG	CHAUDHARI et al., "Transient Liquid Crystal Thermometry Of Microfabricated PCR Vessel Arrays," J. Microelectromechanical Systems, 7(4), pp. 345-355, 1998	<input type="checkbox"/>
	EH	CHEE, MARK et al., "Accessing Genetic Information With High-Density DNA Arrays," Science, Vol. 274, pp. 610-614, October 25, 1996	<input type="checkbox"/>
	EI	CHIEM, N. H. et al., "Microchip Systems For Immunoassay: An Integrated Immunoreactor With Electrophoretic Separation For Serum Theophylline Determination," Clinical Chemistry, Vol. 44, No. 3, p. 591, 1998	<input type="checkbox"/>
	EJ	CHIOU et al., "A Closed-Cycle Capillary Polymerase Chain," Anal. Chem., Vol. 73, pp. 2018-2021, 2001	<input type="checkbox"/>
	EK	CHIU, CHI-SUNG et al., "Single Molecule Measurements Calibrate Green Fluorescent Protein Surface Densities On Transparent Beads For Use With 'Knock-In' Animals And Other Expression Systems," Journal of Neuroscience Methods, Vol. 105, pp. 55-63, 2001	<input type="checkbox"/>
	EL	CHOU, HOU-PU et al., "Disposable Microdevices For DNA Analysis And Cell Sorting," Proc. Solid-State Sensor and Actuator Workshop, Hilton Head, South Carolina, pp. 11-14, June 8-11, 1998	<input type="checkbox"/>
	EM	CHOU, HOU-PU et al., "Microfabricated Devices For Sizing DNA And Sorting Cells," Micro- and Nanofabricated Structures and Devices for Biomedical Environmental Applications, Proceedings of SPIE, Vol. 3258, pp. 181-187, 1998	<input type="checkbox"/>
	EN	COSTERTON, J. WILLIAM et al., "Microbial Biofilms," Annu. Rev. Microbiol., Vol. 49, pp. 711-745, 1995	<input type="checkbox"/>
	EO	COWEN, S. et al., "An On-Chip Miniature Liquid Chromatography System: Design, Construction And Characterization," Micro Total Analysis Systems, Proceedings of the $\mu$ TAS '94 Workshop, University of Twente, The Netherlands, pp. 2 cover pages and 295-298, 1995	<input type="checkbox"/>

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	EP	DELISA, MATTHEW P. et al., "Mapping Stress-Induced Changes In Autoinducer AI-2 Production In Chemostat-Cultivated <i>Escherichia coli</i> K-12," Journal of Bacteriology, Vol. 183, No. 9, pp. 2918-2928, May 2001		<input type="checkbox"/>	
	EQ	DRMANAC, R. et al., "DNA Sequence Determination By Hybridization: A Strategy For Efficient Large-Scale Sequencing," Science, Vol. 260, pp. 1649-1652, June 11, 1993		<input type="checkbox"/>	
	ER	DRMANAC, SNEZANA et al., "Accurate Sequencing By Hybridization For DNA Diagnostics And Individual Genomics," Nature Biotechnology, Vol. 16, pp 54-58, January 1998		<input type="checkbox"/>	
	ES	EFFENHAUSER, CARLO S. et al., "Miniaturizing A Whole Analytical Laboratory Down To Chip Size," American Laboratory, Vol. 26, No. 14, pp. cover, 15, 16, 18, 1994		<input type="checkbox"/>	
	ET	EFFENHAUSER, CARLO S., "Integrated Chip-Based Microcolumn Separation Systems," Topics in Current Chemistry, Vol. 194, pp. cover, 52-82, 1998		<input type="checkbox"/>	
	EU	ERLICH, H.A., PCR Technology, Basic Methodology: Stockton Press, New York, pp. 1-5, 1989		<input type="checkbox"/>	
	EV	FELIX, ARTHUR M. et al., "Pegylated Peptides IV - Enhanced Biological Activity Of Site-Directed Pegylated GRF Analogs," International Journal of Peptide & Protein Research, Vol. 46, pp. 253-264, 1995		<input type="checkbox"/>	
	EW	FELIX, Arthur M., "Site-Specific Poly(ethylene glycol)ylation Of Peptides," Poly(Ethylene Glycol) Chemistry and Biological Applications, ACS Symposium Series 680, pp. 2 cover pages, 218-238, 1997		<input type="checkbox"/>	
	EX	FIEDLER, STEFAN et al., "Dielectrophoretic Sorting Of Particles And Cells In A Microsystem," Analytical Chemistry, Vol. 70, No. 9, pp. 1909-1915, May 1, 1998		<input type="checkbox"/>	
	EY	FODOR, STEPHEN P. A. et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, Vol. 251, pp. 767-773, February 15, 1991		<input type="checkbox"/>	
	EZ	FOTIN, ALEXANDER V. et al., "Parallel Thermodynamic Analysis Of Duplexes On Oligodeoxyribonucleotide Microchips," Nucleic Acids Research, Vol. 26, No. 6, pp. 1515-1521, 1998		<input type="checkbox"/>	
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	FA	FU, ANNE Y. et al., "An Integrated Microfabricated Cell Sorter," Analytical Chemistry, Vol. 74, No. 11, pp. 2451-2457, June 1, 2002	<input type="checkbox"/>
	FB	FULWYLER, M. J., "Electronic Separation Of Biological Cells By Volume," Science, pp. 910-911, November 1965	<input type="checkbox"/>
	FC	GENG, XINDU et al., "Retention Model For Proteins In Reversed-Phase Liquid Chromatography," Journal of Chromatography, Vol. 296, pp. 15-30, 1984	<input type="checkbox"/>
	FD	GINSBERG, MICHAEL A., "New Laser System Measure DNA Fragments," Biophotonics International, p. 20, November/December 1996	<input type="checkbox"/>
	FE	GOMBOTZ, W. R. et al., "Pegylation: A Tool To Enhance Protein Delivery," Abstracts of Papers, American Chemical Society, Vol. 217, Part 2, 2 pages, March 21-25, 1999	<input type="checkbox"/>
	FF	GOODWIN, PETER M. et al., "Rapid Sizing Of Individual Fluorescently Stained DNA Fragments By Flow Cytometry," Nucleic Acids Research, Vol. 21, No. 4, pp. 803-806, 1993	<input type="checkbox"/>
	FG	GRANJEAUD, SAMUEL et al., "Expression Profiling: DNA Arrays In Many Guises," BioEssays, Vol. 21, pp. 781-790, 1999	<input type="checkbox"/>
	FH	GUERRA, PATRICIA I. et al., "PEGylation Prevents The N-Terminal Degradation Of Megakaryocyte Growth And Development Factor," Pharmaceutical Research, Vol. 15, No. 12, pp. 1822-1827, 1998	<input type="checkbox"/>
	FI	GUNDERSON, KEVIN L. et al., "Mutation Detection By Ligation To Complete <i>n</i> -mer DNA Arrays," Genome Research, Vol. 8, pp. 1142-1153, 1998	<input type="checkbox"/>
	FJ	GUO, ZHEN et al., "Enhanced Discrimination Of Single Nucleotide Polymorphisms By Artificial Mismatch Hybridization," Nature Biotechnology, Vol. 15, pp. 331-335, April 1997	<input type="checkbox"/>
	FK	HANCOCK, ROBERT E. W., "A Brief On Bacterial Biofilms," Nature Genetics, Vol. 29, p. 360, December 2001	<input type="checkbox"/>
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	FL	HARRISON, D. JED et al., "Integration Of Analytical Systems Incorporating Chemical Reactions And Electrophoretic Separation," Micro Total Analysis Systems, Proceedings of the $\mu$ TAS '94 Workshop, University of Twente, The Netherlands, pp. 2 cover pages and 105-111, 1995	<input type="checkbox"/>
	FM	HEO, JINSEOK et al., "A Microfluidic Bioreactor Based On Hydrogel-Entrapped <i>E. coli</i> : Cell Viability, Lysis, And Intracellular Enzyme Reactions," Analytical Chemistry, Vol. 75, No. 1, pages 22-26, January 1, 2003	<input type="checkbox"/>
	FN	HERBERT, D., "Continuous Culture Of Bacteria," The Journal of General Microbiology, Vol. 15, pp. 2 cover pages and iv, 1956	<input type="checkbox"/>
	FO	HERBERT, D., "Continuous Culture Of Bacteria: Principles And Applications," Chemistry and Industry, pp. 381, March 29, 1958	<input type="checkbox"/>
	FP	HOHEISEL, JORG D., "Sequence-Independent And Linear Variation Of Oligonucleotide DNA Binding Stabilities," Nucleic Acids Research, Vol. 24, No. 3, pp. 430-432, 1996	<input type="checkbox"/>
	FQ	HONG et al., "Integration Of Gene Amplification And Capillary Gel Electrophoresis On A Polydimethylsiloxane-Glass Hybrid Microchip," Electrophoresis, Vol. 22, pp. 328-333, 2001	<input type="checkbox"/>
	FR	IBRAHIM et al., "Real-Time Microchip PCR For Detecting Single-Base Differences In Viral And Human DNA," Anal. Chem., Vol. 70, pp. 2013-2017, 1998	<input type="checkbox"/>
	FS	IGLOI, GABOR L., "Variability In The Stability Of DNA-Peptide Nucleic Acid (PNA) Single-Base Mismatched Duplexes: Real-Time Hybridization During Affinity Electrophoresis In PNA-Containing Gels," Proc. Natl. Acad. Sci. USA, Vol. 95, pp. 8562-8567, July 1998	<input type="checkbox"/>
	FT	INGRAHAM, JOHN L. et al., Growth Of The Bacterial Cell, pp. 3 cover pages and 230, 1983	<input type="checkbox"/>
	FU	JACKMAN, REBECCA J. et al., "Design And Fabrication Of Topologically Complex, Three-Dimensional Microstructures," Science, Vol. 280, pp. 2089-2091, June 26, 1998	<input type="checkbox"/>

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	FV	JACOBSON, STEPHEN C. et al., "Open Channel Electrochromatography On A Microchip," Analytical Chemistry, Vol. 66, No. 14, pp. 2369-2373, July 15, 1994	<input type="checkbox"/>
	FW	JANNASCH, H. W. et al., "Experimental Bacterial Ecology Studied In Continuous Culture," Advances in Microbial Physiology, Vol. 11, pp. cover and 165-212, 1974	<input type="checkbox"/>
	FX	KAMENTSKY, LOUIS A. et al., "Spectrophotometer: New Instrument For Ultrarapid Cell Analysis," Science, Vol. 150, pp. 630-631, October 29, 1965	<input type="checkbox"/>
	FY	KANE, R. S. et al., "Patterning Proteins And Cells Using Soft Lithography," Biomaterials, Vol. 20, pp. 2363-2376, 1999	<input type="checkbox"/>
	FZ	KELLER, RICHARD A. et al., "Single-Molecule Fluorescence Analysis In Solution," Applied Spectroscopy, Vol. 50, No. 7, pp. 12A-30A, July 1996	<input type="checkbox"/>
	GA	KHANDURINA et al., "Integrated System For Rapid PCR-Based DNA Analysis In Microfluidic Devices," Anal. Chem., Vol. 72, pp. 2995-3000, 2000	<input type="checkbox"/>
	GB	KHANDURINA, J. et al. "Bionalysis in Microfluidic Devices," Journal of Chromatography A, vol. 943, Ino. 2, January 18, 2002, Elsevier Science B.V., pgs. 159-183.	<input type="checkbox"/>
	GC	KODERA, YOH et al., "Pegylation Of Proteins And Bioactive Substances For Medical And Technical Applications," Prog. Polym. Sci., Vol. 23, pp. 1233-1271, 1998	<input type="checkbox"/>
	GD	KUTYAVIN, IGOR V. et al., "3'-Minor Groove Binder-DNA Probes Increase Sequence Specificity At PCR Extension Temperatures," Nucleic Acids Research, Vol. 28, No. 2, pp. 655-661, 2000	<input type="checkbox"/>
	GE	LANE, P. G., "Analysis Of A Continuous-Culture Technique For The Selection Of Mutants Tolerant To Extreme Environmental Stress," Biotechnology and Bioengineering, Vol. 65, No. 4, pp. 397-406, November 20, 1999	<input type="checkbox"/>

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	GF	LAWRENCE, J. R. et al., "Optical Sectioning Of Microbial Biofilms," Journal of Bacteriology, Vol. 173, No. 20, pp. 6558-6567, October 1991	<input type="checkbox"/>
	GG	LEE, L. STANFORD et al., "Prolonged Circulating Lives Of Single-Chain Fv Proteins Conjugated With Polyethylene Glycol: A Comparison Of Conjugation Chemistries And Compounds," Bioconjugate Chem., Vol. 10, pp. 973-981, 1999	<input type="checkbox"/>
	GH	LESSARD, GUILLAUME A. et al., "A Scanning Apertureless Fluorescence Microscope," 8 pages, 1999	<input type="checkbox"/>
	GI	LIU, JIAN et al., "Solving The 'World-To-Chip' Interface Problem With A Microfluidic Matrix," Analytical Chemistry, Vol. 75, No. 18, pp. 4718-4723, September 15, 2003	<input type="checkbox"/>
	GJ	LORENZ, PATRICK et al., "Screening For Novel Enzymes For Biocatalytic Processes: Accessing The Metagenome As A Resource Of Novel Functional Sequence Space," Current Opinion in Biotechnology, Vol. 13, pp. 572-577, 2002	<input type="checkbox"/>
	GK	MAIER, ELMAR et al., "Automated Array Technologies For Gene Expression Profiling," DDT, Vol. 2, No. 8, pp. 315-324, August 1997	<input type="checkbox"/>
	GL	MALDONADO-RODRIGUEZ, ROGELIO et al., "Mutation Detection By Stacking Hybridization On Genosensor Arrays," Molecular Biotechnology, Vol. 11, pp. 13-25, 2000	<input type="checkbox"/>
	GM	MAREŠOVÁ, H. et al., "A Chemostat Culture As A Tool For The Improvement Of A Recombinant <i>E. coli</i> Strain Over-Producing Penicillin G Acylase," Biotechnology And Bioengineering, Vol. 75, No. 1, pp. 46-52, October 5, 2001	<input type="checkbox"/>
	GN	MARTON, MATTHEW J. et al., "Drug Target Validation And Identification Of Secondary Drug Target Effects Using DNA Microarrays," Nature Medicine, Vol. 4, No. 11, pp. 1293-1301, November 1998	<input type="checkbox"/>
	GO	MASTRANGELO, C. H. et al., "Vacuum-Sealed Silicon Micromachined Incandescent Light Source," IEDM, pp. 503-506, 1989	<input type="checkbox"/>

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	GP	MAULE, JOHN, "Pulsed-Field Gel Electrophoresis," Molecular Biotechnology, Vol. 9, pp. 107-126, 1998	<input type="checkbox"/>	
	GQ	MEINERS, JENS-CHRISTIAN et al., "Direct Measurement Of Hydrodynamic Cross Correlations Between Two Particles In An External Potential," Physical Review Letters, Vol. 82, No. 10, pp. 2211-2214, March 8, 1999	<input type="checkbox"/>	
	GR	MENCHEN, STEVE et al., "Flowable Networks As DNA Sequencing Media In Capillary Columns," Electrophoresis, Vol. 17, pp. 1451-1459, 1996	<input type="checkbox"/>	
	GS	MONOD, JACQUES, "The Growth Of Bacterial Cultures," Annual Review of Microbiology, Vol. III, pp. cover and 371-394, 1949	<input type="checkbox"/>	
	GT	NAKANO et al., "High Speed Polymerase Chain Reaction In Constant Flow," Biosci. Biotech. Biochem., 58(2), pp. 349-352, 1994	<input type="checkbox"/>	
	GU	NIELSEN, JENS et al., Bioreaction Engineering Principles, Second Edition, pp. 2 cover pages and 42-45, 2003	<input type="checkbox"/>	
	GV	NOLAN, JOHN P. et al., "The Emergence Of Flow Cytometry For Sensitive, Real-Time Measurements Of Molecular Interactions," Nature Biotechnology, Vol. 16, pp. 633-638, July 1998	<input type="checkbox"/>	
	GW	NOVICK, AARON et al., "Description Of The Chemostat," Science, Vol. 112, pp. 715-716, December 15, 1950	<input type="checkbox"/>	
	GX	NOVICK, AARON et al., "Experiments With The Chemostat On Spontaneous Mutations Of Bacteria," Proc. N. A. S., Vol. 36, pp. 708-719, 1950	<input type="checkbox"/>	
	GY	O'REILLY, MARIE-ANNE J. et al., "The Technique Of Pulsed Field Gel Electrophoresis And Its Impact On Molecular Immunology," Journal of Immunological Methods, Vol. 131, pp. 1-13, 1990	<input type="checkbox"/>	
	GZ	PERSSON, BJORN et al., "Analysis Of Oligonucleotide Probe Affinities Using Surface Plasmon Resonance: A Means For Mutational Scanning," Analytical Biochemistry, Vol. 246, pp. 34-44, 1997	<input type="checkbox"/>	
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	HA	PETTY, JEFFREY T. et al., "Characterization Of DNA Size Determination Of Small Fragments By Flow Cytometry," Anal. Chem., Vol. 67, pp. 1755-1761, 1995	<input type="checkbox"/>	
	HB	POPLAWSKI, M. E. et al., "A Simple Packaging Process For Chemical Sensors," Solid-State Sensor and Actuator Workshop, Hilton Head, South Carolina, pp. 25-28, June 13-16, 1994	<input type="checkbox"/>	
	HC	QU, MINGBO et al., "Toxicity And Biodegradation Of Formaldehyde In Anaerobic Methanogenic Culture," Biotechnology and Bioengineering, Vol. 55, No. 5, pp. 727-736, September 5, 1997	<input type="checkbox"/>	
	HD	RONDON, MICHELLE R. et al., "Cloning The Soil Metagenome: A Strategy For Accessing The Genetic And Functional Diversity Of Uncultured Microorganism," Applied and Environmental Microbiology, pp. 2541-2547, June 2000	<input type="checkbox"/>	
	HE	ROTMAN, BORIS, "A Simplified Device For Continuous Growth Of Microorganisms," Journal of Bacteriology, Vol. 70, pp. 485-486, 1955	<input type="checkbox"/>	
	HF	SAMAD, AKHTAR et al., "Optical Mapping: A Novel, Single-Molecule Approach To Genomic Analysis," Genome Research, pp. 1-4, 1995	<input type="checkbox"/>	
	HG	SCHEMA, MARK et al., "Quantitative Monitoring Of Gene Expression Patterns With A Complementary DNA Microarray," Science, Vol. 270, pp. 467-470, October 20, 1995	<input type="checkbox"/>	
	HH	SCHLOSS, PATRICK D. et al., "Biotechnological Prospects From Metagenomics," Current Opinion in Biotechnology, Vol. 14, pp. 303-310, 2003	<input type="checkbox"/>	
	HI	SCHULLEK, JOHN R., "A High-Density Screening Format For Encoded Combinatorial Libraries: Assay Miniaturization And Its Application To Enzymatic Reactions," Analytical Biochemistry, Vol. 246, pp. 20-29, 1997	<input type="checkbox"/>	
	HJ	SCHWARTZ, DAVID C. et al., "Optical Mapping Approaches To Molecular Genomics," Current Opinion in Biotechnology, Vol. 8, pp. 70-74, 1997	<input type="checkbox"/>	
	HK	SHULER, MICHAEL L. et al., "Chapter 6 - How Cells Grow," Bioprocess Engineering Basic Concepts, Second Edition, pp. 2 cover pages and 155-200, 2002	<input type="checkbox"/>	
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	HL	SKLAR, LARRY A. et al., "Sample Handling For Kinetics And Molecular Assembly In Flow Cytometry, SPIE, Vol. 3256, pp. 144-153, 1998	<input type="checkbox"/>
	HM	SOSNOWSKI, RONALD G. et al., "Rapid Determination Of Single Base Mismatch Mutations In DNA Hybrids By Direct Electric Field Control," Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 1119-1123, February 1997	<input type="checkbox"/>
	HN	SOUTHERN, E. M. et al., "Analyzing And Comparing Nucleic Acid Sequences By Hybridization To Arrays Of Oligonucleotides: Evaluation Using Experimental Models," Genomics, Vol. 13, pp. 1008-1017, 1992	<input type="checkbox"/>
	HO	SPELLMAN, PAUL T. et al., "Comprehensive Identification Of Cell Cycle-Regulated Genes Of The Yeast <i>Saccharomyces cerevisiae</i> By Microarray Hybridization," Molecular Biology of the Cell, Vol. 9, pp. 3273-3297, December 1998	<input type="checkbox"/>
	HP	SPICER, C. C., "The Theory Of Bacterial Constant Growth Apparatus," Biometrics, pp. 225-230, June 1955	<input type="checkbox"/>
	HQ	STEMMER, WILLEM P. C. et al., "Rapid Evolution Of A Protein <i>in vitro</i> By DNA Shuffling," Nature, Vol. 370, pp. 389-390, August 4, 1994	<input type="checkbox"/>
	HR	STOMAKHIN, ANDREY A. et al., "DNA Sequence Analysis By Hybridization With Oligonucleotide Microchips: MALDI Mass Spectrometry Identification Of 5mers Contiguously Stacked To Microchip Oligonucleotides," Nucleic Acids Research, Vol. 28, No. 5, pp. 1193-1198, 2000	<input type="checkbox"/>
	HS	SUSSMAN, NORMAN L. et al., "The Predictive Nature Of High-Throughput Toxicity Screening Using A Human Hepatocyte Cell Line," Cell Notes, Issue 3, pp. 7-10, 2002	<input type="checkbox"/>
	HT	SWART, REMCO et al., "Recent Progress In Open Tubular Liquid Chromatography," Trends in Analytical Chemistry, Vol. 16, No. 6, pp. 332-342, 1997	<input type="checkbox"/>
	HU	SWEET, RICHARD G., "Chapter 9 - Flow Sorters For Biologic Cells," Flow Cytometry and Sorting, John Wiley & Sons, pp. 5 cover pages and 177-189, 1979	<input type="checkbox"/>

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	HV	TAYLOR, ANNE M. et al., "Microfluidic Multicompartment Device For Neuroscience Research," Langmuir, Vol. 19, pp. 1551-1556, 2003	<input type="checkbox"/>	
	HW	TERRY, STEPHEN C. et al., "A Gas Chromatographic Air Analyzer Fabricated On A Silicon Wafer," IEEE Transactions on Electron Devices, Vol. ED-26, No. 12, pp. 1880-1886, December 1979	<input type="checkbox"/>	
	HX	THOMPSON, H. GARRETT R. et al., "Identification And Confirmation Of A Module Of Coexpressed Genes," Genome Research, Vol. 12, pp. 1517-1522, 2002	<input type="checkbox"/>	
	HY	TODD, PAUL et al., "Chapter 12 - Cell Electrophoresis," Flow Cytometry and Sorting, John Wiley & Sons, pp. 5 cover pages and 217-229, 1979	<input type="checkbox"/>	
	HZ	TOUSSAINT, ARIANE et al., "A New Evaluation Of Our Life-Support System," EMBO Reports, Vol. 4, No. 9, pp. 820-824, 2003	<input type="checkbox"/>	
	IA	TYAGI et al., "Molecular Beacons: Probes that Fluoresce upon Hybridization," Nature Biotechnology, 14:303-308 (1996).	<input type="checkbox"/>	
	IB	UMDANHOWAR, P. B. et al., "Monodisperse Emulsion Generation Via Drop Break Off In A Coflowing Stream," Langmuir, Vol. 16, pp. 347-351, 2000	<input type="checkbox"/>	
	IC	UNGER, M et al., "Single-Molecule Fluorescence Observed With Mercury Lamp Illumination," Biotechniques, Vol. 27, No. 5, pp. 1008-1014, November 1999	<input type="checkbox"/>	
	ID	VAHEY, PAUL G. et al., "Development Of A Positive Pressure Driven Micro-Fabricated Liquid Chromatographic Analyzer Through Rapid-Prototyping With Poly(dimethylsiloxane) Optimizing Chromatographic Efficiency With Sub-Nanoliter Injections," Talanta, Vol. 51, pp. 1205-1212, 2000	<input type="checkbox"/>	
	IE	VAN DAM, R. MICHAEL et al., "Gene Expression Analysis With Universal n-mer Arrays," Genome Research, Vol. 12, pp. 145-152, 2002	<input type="checkbox"/>	
	IF	VAN DILLA, MARVIN A. et al., "Chapter 2 - Introduction And Resume Of Flow Cytometry And Sorting," Flow Cytometry and Sorting, John Wiley & Sons, pp. 5 cover pages and 11-37, 1979	<input type="checkbox"/>	
Examiner Signature	/Paul Hyun/		Date Considered	06/08/2009

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Substitute for form 1449A&B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/517,942
				Filing Date	August 4, 2005
				First Named Inventor	Manger, Ian D.
				Art Unit	1765
				Examiner Name	Not Assigned
Sheet	17	of	18	Attorney Docket Number	020174-008610US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	IG	VAN ORDEN, ALAN et al., "High-Throughput Flow Cytometric DNA Fragment Sizing," Anal. Chem., Vol. 72, No. 1, pp. 37-41, January 1, 2000	<input type="checkbox"/>
	IH	VERONESE, F. M. et al., "Influence Of PEGylation On The Release Of Low And High Molecular-Weight Proteins From PVA Matrices," Journal of Bioactive and Compatible Polymers, Vol. 14, pp. 315-330, July 1999	<input type="checkbox"/>
	II	VERONESE, FRANCESCO M., "Peptide And Protein PEGylation: A Review Of Problems And Solutions," Biomaterials, Vol. 22, pp. 405-417, 2001	<input type="checkbox"/>
	IJ	VOLKMUTH, W. D. et al., "DNA Electrodifffusion In A 2D Array Of Posts," Physical Review Letters, Vol. 72, No. 13, pp. 2117-2120, March 28, 1994	<input type="checkbox"/>
	IK	VOLKMUTH, W. D. et al., "DNA Electrophoresis In Microlithographic Arrays," Nature, Vol. 358, pp. 600-602, August 13, 1992	<input type="checkbox"/>
	IL	WARD, KEITH B. et al., "Automatic Preparation Of Protein Crystals Using Laboratory Robotics And Automated Visual Inspection," Journal of Crystal Growth, Vol. 90, pp. 325-339, 1988	<input type="checkbox"/>
	IM	WATERS, L. C. et al., "Microchip Devices For Cell Lysis, Multiplex PCR Amplification, And Electrophoretic Sizing," Analytical Chemistry, Vol. 70, No. 1, pp. 158-162, January 1, 1998	<input type="checkbox"/>
	IN	WEBSTER, J. R. et al., "Monolithic Capillary Gel Electrophoresis Stage With On-Chip Detector," IEEE, pp. 491-496, 1996	<input type="checkbox"/>
	IO	WIEBE, MARILYN G. et al., "Evolution Of A Recombinant (Gucoamylase-Producing) Strain Of <i>Fusarium venenatum</i> A3/5 In Chemostat Culture," Biotechnology and Bioengineering, Vol. 73, No. 2, pp. 146-156, April 20, 2001	<input type="checkbox"/>
	IP	WOOLEY et al., "Functional Integration Of PCR Amplification And Capillary Electrophoresis In A Microfabricated DNA Analysis Device," Anal. Chem., Vol. 68, pp. 4081-4086, 1996	<input type="checkbox"/>

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	IQ	WOOLEY, A. T. et al., "Capillary Electrophoresis Chips With Integrated Electrochemical Detection," Analytical Chemistry, Vol. 70, No. 4, pp. 684-688, February 15, 1998	<input type="checkbox"/>
	IR	WU, CHUNHUNG et al., "Viscosity-Adjustable Block Copolymer For DNA Separation By Capillary Electrophoresis," Electrophoresis, Vol. 19, pp. 231-241, 1998	<input type="checkbox"/>
	IS	YANG, T. J. et al., "An Apertureless Near-Field Microscope For Fluorescence Imaging," Applied Physics Letters, Vol. 76, No. 3, pp. 378-380, January 17, 2000	<input type="checkbox"/>
	IT	YERSHOV, GENNADY et al., "DNA Analysis And Diagnostics On Oligonucleotide Microchips," Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 4913-4918, May 1996	<input type="checkbox"/>
	IU	YOKOBAYASHI, YOHEI et al., "Evolutionary Design Of Genetic Circuits And Cell-Cell Communications," Advances in Complex Systems, Vol. 6, No. 1, pp. 37-45, 2003	<input type="checkbox"/>
	IV	ZALIPSKY, SAMUEL, "Chemistry Of Polyethylene Glycol Conjugates With Biologically Active Molecules," Advanced Drug Delivery Reviews, Vol. 16, pp. 157-182, 1995	<input type="checkbox"/>
	IW	ZDEBLICK, MARK J. et al., "A Microminiature Electric-To-Fluidic Valve," Transducers '87, Proceedings of the 4th International Conference on Solid-State Sensors and Actuators, reprinted in Micromechanics and MEMS Classic and Seminal Papers to 1990, pp. 2 cover pages, 437-439, June 1987	<input type="checkbox"/>
	IX	ZIAUDDIN, JUNAID et al., "Microarrays Of Cells Expressing Defined cDNAs," Nature, Vol. 411, pp. 107-110, May 3, 2001	<input type="checkbox"/>
	IY		<input type="checkbox"/>

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